SIGGRAPH 2001 FUNDAMENTALS SEMINAR



Michael J. Bailey

San Diego Supercomputing Center & University of California at San Diego

Wayne E. Carlson

Advanced Computing Center for Arts & Design (ACCAD) at the Ohio State University

Jackie White

College of Arts and Letters California State University, Los Angeles

Barb Helfer



Goals for the day:

- An accessible introduction to computer graphics *jargon*, concepts, techniques, technologies and applications.
- SIGGRAPH the organization, conference, and volunteering
- Pathfinders assistance in navigating the conference



- Computer Graphics Applications (Jackie White)
- Graphics Systems Software (Wayne Carlson)
- Graphics Systems Hardware (Mike Bailey)
- SIGGRAPH (Jackie White)
- Pathfinders (Barb Helfer)



Special Thanks to:

- SIGGRAPH 2001
 - Lynn Pocock, Conference Chair
 - Lou Harrison, Courses Chair
- SIGGRAPH Contributors & Collections
 - Slide Collections
 - Media trailer, video clips
- Other Slide & Video Contributors



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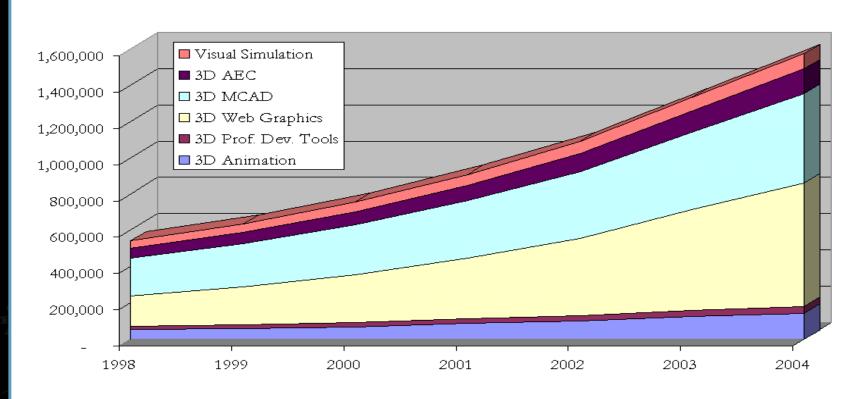
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Barb Helfer



Current 3D Software Trends

Annual Unit Shipments for 3D Software

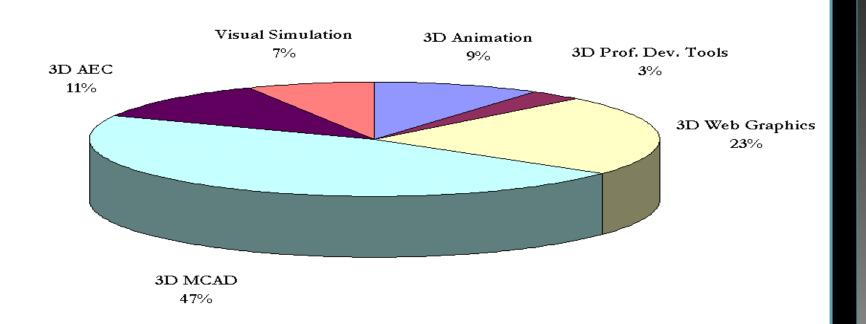


Source: M2 Research



3D Software Application Breakdown

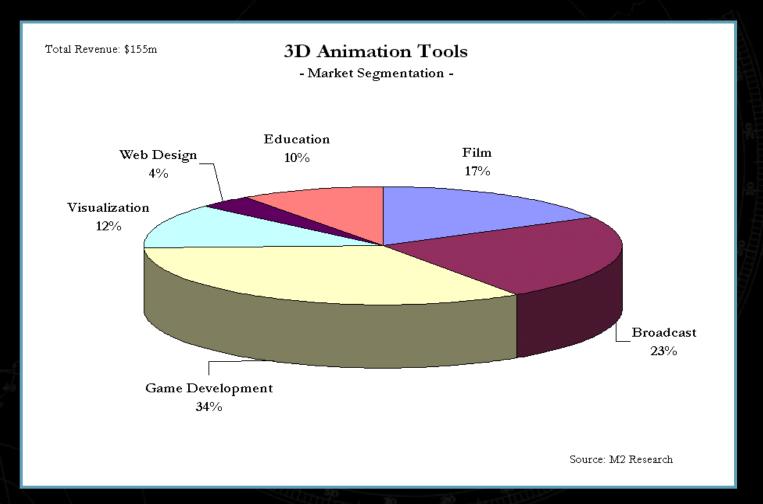
Breakdown of 3D Software by Application - 2000



Source: M2 Research



Animation Segment





Animation



A collection of autonomous rovers and space vehicles that may be part of the scientific exploration of Mars © 2000 Jet Propulsion Laboratory California Institute of Technology



Animation



Wild Jungle - Motion ride ©2000 Shinji Torigoe, Shingo Yasumaru SEGA Corporation



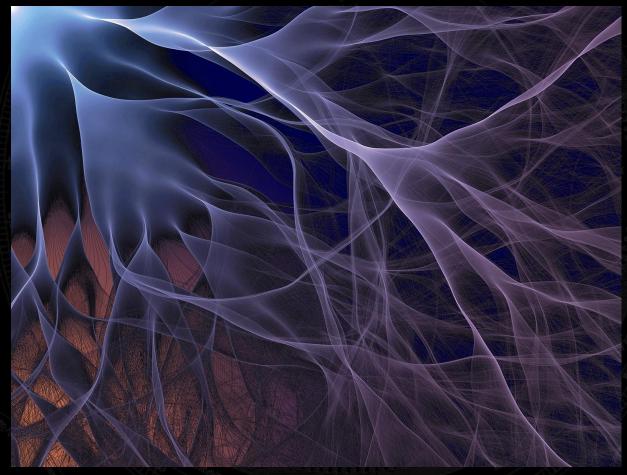
Animation - Scientific Visualiza



Capitol Zoom ©2000 Gregory W. Shirah, NASA/GSFC Scientific Visualization Studio



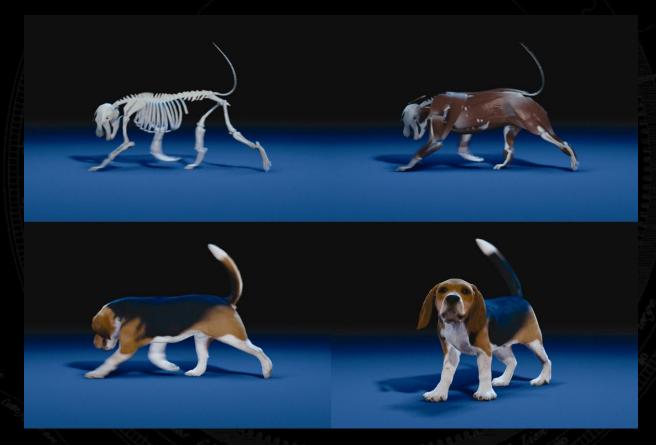
Art



Transport VI © 2000 Eric Heller



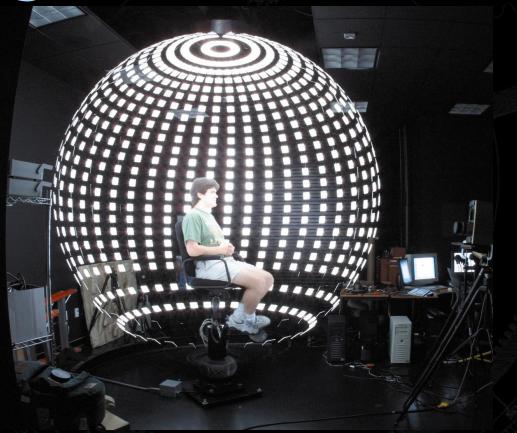
Modeling



Skinning Cats and Dogs Using Muscle Deformations ©2000 Rhythm & Hues Studios



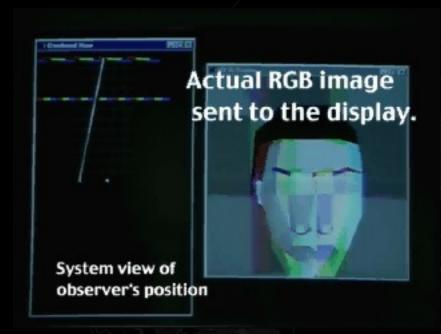
Lighting



Light Stage 2.0 © 2000 Institute for Creative Technologies



Stereoscopy





Autostereoscopic image of a virtual face ©2000 Ken Perlin, Salvatore Paxia, Joel S. Kollin Media Research Laboratory, Dept. of Computer Science New York University



Interactiv

e



Informative Art © 2000 PLAY - Interactive Institute



Education



Robert Negrete



Danny Chung

Los Angeles County High School for the Arts 1 EXPLORE

AND DIGITAL IMAGES

ACM Organization

Assoc. for Computing Machinery Council & Executive Committees

SIG Governing Board

ACM HQ Staff

SIGACT

• • SIGGRAPH • •

• SIGWEB

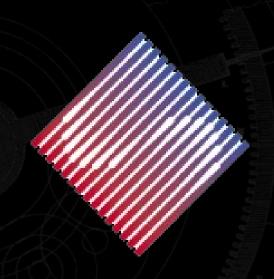
37 Special Interest Groups (SIGs)



ACM SIGGRAPH

Executive Committee (EC)

Conference Advisory Group (CAG)



SIGGRAPH 2001 Conference Committee

SIGGRAPH 2002 Conference Committee



ACM S

Executive Committee (EC)

Conference Advisory Group (CAG)

SIGGRAPH 2001 Conference Committee

Executive Committee (EC)

President Past

President

Vice President

Education

Treasurer

Publications

Communications At Large

(2)

Chapters CAG Chair

Ex Officio: CSE & ACM

Program Dir

SIGGRAPH 2002 Conference Committee



ACM SIGGRAPH

Executive Committee (EC)

Conference Advisory Group (CAG) **Conference Advisory**

Group

CAG Chair EC Reps (2)

Chair S2000 Chair S2002

Chair S2001 Chair S2003

Ex Officio:

Chief Staff Executive (CSE)

SIGGRAPH 2001 Conference Committee

SIGGRAPH 2002 Conference Committee



SIGGRAPH Conference Programs

Technical:

- Papers
- Panels
- Courses
- Sketches & Applications
- Educators Program
- CAL (hands-on)

Other Programs:

- Art Gallery: N-Space
- Computer Animation Festival
- EmergingTechnologies
- The Studio (hands-on)



SIGGRAPH Conference Programs

Services & Activities:

- Exhibition & Exhibitor Forums
- Keynote Address
- BOFs
- Receptions
- Special Sessions

- Pathfinders(Mentoring)
- Career Center
- •Job Fair
- •International Resources
- •Internet Access
 Rooms —SICCE

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